

ABSTRACT

An information recording apparatus for recording information with less waveform deformation with an adequate modulation degree and with a high asymmetry, an information recording method, and an information recording program are disclosed. An information recording apparatus in which a laser beam is applied to a recording medium and a recording mark corresponding to a recording signal is formed includes a light source for emitting a laser beam and signal generating means for generating a recording pulse signal for driving the light source according to the recording signal. The recording pulse signal includes a mark period during which a recording mark is formed and a space period during which no recording mark is formed. During the mark period corresponding to a long mark, the level of the recording pulse signal corresponds to a recording power with which the reproduction compatibility is ensured and the waveform distortion is at or below a predetermined value. During the mark period corresponding to a short mark, the level of the recording pulse signal corresponds to a recording power with which the asymmetry is within a predetermined range. Thus, the reproduction compatibility with other information reproducing apparatuses can be ensured. The recording marks are free of waveform distortion, and recording is performed within an adequate range of asymmetry, thereby improving the recording characteristics.